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1876

BROOKLINE, MASS. REPORT OF THE
WATER COMMITTEE.

FINAL REPORT OF THE BROOKLINE
WATER COMMISSIONERS.

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Brookline, Mass. Water
REPORT OF THE COMMITTEE

TO WHOM WAS REFERRED THE

FINAL REPORT

OF THE

Brookline Water Commissioners.



BOSTON:
PRESS OF ROCKWELL AND CHURCHILL,
No. 39 ARCH STREET.
1876.

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REPORT.

The undersigned, members of the committee appointed on the 27th day of January, 1876, under the following vote of the town of Brookline, viz. : "*Voted*, That the final report and the other reports of the Water Commissioners to the town or selectmen, and their accounts and reports, and accounts and reports of their engineer, with other accompanying documents, be referred to a committee of five, to be appointed by the moderator, with instructions to fully examine the matters therein referred to, and report thereon to this or a future meeting in print," — ask leave to report that they have examined the vouchers for sums paid out of the treasury on account of water works, and find them to agree substantially with the orders drawn on the Treasurer. All the payments which have been made on account of the construction of the Water Works are, for convenience of reference, printed in the Appendix A, according to the dates of the orders drawn on the Treasurer. The serial numbers take their place among all the orders drawn for any purpose by the Selectmen during the respective financial years. The orders in many cases for the money paid for land and land damages were, for convenience of the parties, drawn by the Chairman of the Board, to be paid over upon the execution and delivery of the deeds and releases. And, on their delivery, the money was paid, and the deeds, after being recorded, were placed in custody of the Town Clerk. On the 9th of March, 1874, an order was drawn for \$113.72 in excess of the receipted bills filed as vouchers with the warrant; but for this sum receipted bills were afterwards

filed, some of them for expenses incurred in July following. It appears to the undersigned that as soon as the overdraft was discovered the excess of the draft or order should have been returned to the treasurer.

Certain other instances of a want of care in approving and paying warrants have been brought to the notice of the undersigned; but as the town has apparently suffered no loss thereby, we do not deem it essential to give particulars.

On the 2d of February, 1875, an advance of \$4,000 was made to James Driscoll, out of the reserve, then amounting to some \$5,000 or \$6,000, and withheld under the terms of his contracts as security for their final completion by him. At the same time he gave a bill of sale of a stone-crusher and other personal property in the nature of a mortgage, to indemnify the town against loss by the accommodation thus afforded to him. On the 10th of November, 1875, the sum of \$10,800.50, being the final estimate of all that was due to him under his old contracts, was paid without deducting the \$4,000 which had been advanced February 2d. [See final report, p. 102, line 16, erroneously printed \$16,800.50.] At the time of the payment of the \$10,800.50 there was due on account of a contract dated Sept. 13, 1875, for laying the wooden conduit, which replaced the Akron sewer-pipe between the filtering gallery and pumping-station, an amount exceeding \$4,000; and that sum was charged to his account under the last contract, and accepted by him in part payment of his bill for labor and material upon the wooden conduit. [See final report, bottom of page 103.]

Though, as the event proved, the town did not lose the \$4,000 advanced, nor the other over-payments, or any part of them, yet we think such errors in keeping the accounts of payments on behalf of the town showed less care than prudent men usually exercise in their ordinary business.

For the quantities and prices of labor done and material furnished, the undersigned have relied upon the estimates of

the engineer employed by the commissioners, having no reason to doubt their correctness, and as from their character it would be impossible to verify them without employing experts at considerable cost to the town.

In some cases certain papers, which the undersigned think should have accompanied the orders for payment, were not in possession of either the Water Commissioners or the Treasurer at the time the examination was begun, but were afterwards furnished by the engineer.

In regard to the use of the Akron sewer-pipe between the filtering-gallery and pumping-station, the town has learned at a cost of over \$15,000, that it was not a suitable material to be used. For opinions of consulting engineers upon this subject see letter of November 18, 1875, from J. Herbert Shedd, p. 115 of final report. "The clay pipes, however, that had been previously used in the conduit are, in my opinion, too thin for that diameter in such a service." See also letter of Joseph P. Davis, p. 113, final report. When speaking of the Akron sewer-pipe, he says: "As compared with the Scotch pipes, they appear to be made of inferior materials, and to be not so able to resist external pressure." That the Scotch pipe was suitable, we think, the Commissioners must have known. By the records of the Commissioners, it appears that they advertised for bids to furnish Scotch pipe, which bids were to be received by the first day of June, and to be opened that day. For the information of the town upon this subject, we submit, without comment, the answer of the Commissioners to an interrogatory respecting the matter, and to a letter of their chairman, dated March 16th, 1876, and to the statement of James Edmond & Co., and to their letter of March 14th, 1876, all of which are hereto appended, marked "B."

Without expressing any opinion as to the reasonableness of the charge — between \$400 and \$500 — for professional services in the examination of titles by a firm, of which the

chairman of the Commissioners was a member, the undersigned are bound to say it would have been more proper, on general principles, and especially in view of the seventh and eighth sections of the ordinance for the government of the Water Commissioners,* that no Commissioner should have had a pecuniary interest in any bill which he or his colleagues must approve before it could be paid.

With respect to the negotiations of the Commissioners with the city of Boston, for supplying water to Wards 17 and 19, we find that the Boston Water Board and their engineer, Mr. Davis, were very desirous of procuring their supply for these wards from Brookline, and, until the very abrupt termination of the negotiations, were confident of being able to make satisfactory arrangements to that end. Evidence of this may be found in the fact that, on the 11th day of March, 1875, the city contracted with Messrs. Jesse W. Starr & Co., of Camden, New Jersey, for the pipe

* "SECTION 7. No one of said commissioners, no town officer who receives compensation from the town for his services, and no person appointed to any office or employed by virtue of this ordinance, or by the aforesaid act, shall be interested directly or indirectly in any bargain, contract, sale or agreement in relation to said Water Works, or any matter or thing connected therewith, wherein the town is interested, without an express vote of the town previously passed; and any and all contracts, bargains, sales or agreements made in violation of this section shall be void as to the town.

"SECT. 8. It shall be the duty of the commissioners to exercise all reasonable vigilance and care, by personal inspection, examination and supervision from day to day, or from time to time, as circumstances may require, of all matters and things herein committed to their charge; to see that all works, matters and things to be done, executed and performed by and through their agency, and under their superintendence, by virtue of the act aforesaid and of this ordinance, shall be done, executed and performed in a substantial, economical and effectual manner; that all the engineers, officers, clerks, agents and other persons who may be employed by them in the works aforesaid, execute and discharge the duties and labors assigned to them respectively, in a diligent and faithful manner; and that all contracts and agreements made and concluded by them in the execution of the duties of their office, are faithfully and properly executed and performed."

necessary for making the connections with Brookline. This contract was in force until the 17th day of May, four days after the letter of Mr. Drew, proposing to meter the water, had been delivered. The proposition from Boston was made by Mr. Davis, the Water Registrar, who states that, by instruction of the President of the Boston Water Board, he carried the contract between Boston and Charlestown to the office of Mr. Drew, presented the contract to him, and said that he was authorized by the Water Board to say that the city of Boston would contract with Brookline upon that basis.

So far as we are able to determine the Boston Water Board had then the confidence and support of the City Government in all its branches; and any recommendations by the Board upon this subject would, in all probability, have met the approval of the Common Council. There is, furthermore, no doubt that the Water Board would have recommended taking water from Brookline, upon the basis of the Charlestown contract.

We think, therefore, that if the Brookline Commissioners had been willing seasonably to accept the terms offered, a contract, highly advantageous to the town, for supplying water to Wards 17 and 19 would have been made.

The undersigned recommend that the Field notes and other documents relating to the details of the work, of which the engineer has charge, being of great importance to the town, be deposited with the Water Board, and carefully preserved apart from all other records.

The sum stated in the final report of the Water Commissioners to be due James Driscoll, viz., \$3,054.55, appears to be correct, and we recommend an appropriation for its payment.

GEORGE GRIGGS,
HENRY M. WHITNEY.

(A.)

1873-4.		No. order.			
Feb.	2.	684.	} Series, 1873-4.	E. S. Philbrick, pay-roll for	
				Dec., 1873	.
		780.	}	Jan., 1874	348 25
1874.					
March	9.	38.	"	Pay-roll for Feb. 7	374 62
		39.	"	Salary for self and assistant . . . \$1,000 00	
			"	Sundry bills . . .	66 28
			"	Advertising, N. Y. Times, p'd May 27	57 60
			"	" " " "	11 20
				Thos. Groom & Co. 29	2 00
				Sundry bills . . .	42 92
					1,180 00
April	6.	50.		Van Kleeck, Clark & Co., printing Bonds	55 00
	13.	64.		M. A. Lathrop, soundings at Cow Island	142 40
		77.		E. S. Philbrick, pay-roll, March	392 02
		78.		C. H. Drew, salary . . . \$402 78	
				" Stationery and printing	245 75
					648 53
		79.		C. K. Kirby, salary	402 78
		80.		N. Y. Times, advertising . . .	69
	27.	109.		C. H. Drew, land Fisher's Hill . . .	25,000 00
May	11.	132.		W. Aspinwall, salary	402 78
		141.		Stone & Goodspeed, carriage hire	10 50
		142.		Journal Newspaper Co., adver- tising	18 37
<i>Carried forward,</i>					\$29,198 60

Brought forward,

\$29,198 60

1874. No. order.

May 11.	143.	Widdifield & Co., tape measures	6 00
	144.	E. S. Philbrick, Railroad fares and maps	45 79
	145.	Duquet & Seaver, 15 feet pipe,	2 85
	146.	E. S. Philbrick, pay-roll, April	558 37
June 8.	197.	A. Mudge & Son, printing .	8 50
	198.	Rand, Avery & Co., " .	38 50
	207.	Widdifield & Co., tape measures	27 00
	208.	Frost & Adams, paper, etc., .	27 25
	209.	A. S. Adams, hardware, . .	1 82
	210.	Fairbanks, Brown & Co., scales,	50 00
	211.	E. S. Philbrick, salary . .	1,000 00
	212.	J. T. O'Day, stationery . .	18 76
	213.	N. Y. Times, advertising . .	32 00
	214.	E. S. Philbrick, pay-roll for May,	759 50
	215.	John F. Ward & Co., laying pipe	578 00
	216.	Boston Machine Co., hydrants, etc.	3,718 80
	217.	J. W. Starr & Sons, pipe . .	30,681 81
July 6.	244.	C. E. Dearborn, lumber . .	257 05
	245.	J. D. Long, labor, etc. . .	156 11
	250.	Geo. W. Whitman, inspection of pipe	360 00
	252.	Drew & Mason, legal services .	60 50
	253.	C. H. Drew, salary . . .	250 00
	254.	F. Darracott, " . . .	250 00
	255.	C. K. Kirby, " . . .	250 00
	256.	J. W. Starr & Sons, pipe . .	24,355 45
9.	266.	John F. Ward; laying pipe .	10,464 22
13.	267.	Boston Machine Co., hydrants, gates, etc.	3,757 72

Carried forward,

\$106,914 60

		<i>Brought forward,</i>	\$106,914 60
1874.	No. order.		
July 13.	268.	Jas. Driscoll, excavation reser- voir, etc.	4,673 26
	269.	E. S. Philbrick, pay-roll for June	853 25
	270.	Chas. Chase, express	5 10
	271.	Cutter, Tower & Co., blank- books	13 50
	272.	Thos. F. Temple, recording plan,	2 00
13.	333.	N. C. Towle, salary	187 50
20.	340.	Beals, Greene & Co., advertising	40 75
	341.	Jas. Driscoll, labor, etc. . . .	144 00
20.	342.	C. H. Drew paid A. T. Brown, for land	2,250 00
27.	354.	Beals & Jones, lumber and labor	31 77
Aug. 3.	359.	Geo. W. Whitman, inspection of pipe	120 00
	360.	E. S. Philbrick, pay-roll, July .	821 00
	411.	C. H. Drew, advanced Akron Drain Pipe Co.	900 00
Sept. 7.	427.	Rand & Avery, printing,	9 50
	428.	Widdifield & Co., tape measures	12 00
	432.	J. W. Starr & Sons, pipe	10,441 32
	433.	E. S. Philbrick, pay-roll, Aug. .	769 59
	443.	J. W. Starr & Sons, pipe	28,933 31
	444.	Boston Machine Co., hydrants, etc.	1,580 40
	445.	John F. Ward, laying pipe . . .	9,408 60
	446.	Jas. Driscoll, labor . \$126 99	
		“ reservoir	2,768 36
		“ filtering gallery	2,551 31
			<hr/> 5,446 66
		<i>Carried forward,</i>	<hr/> \$173,558 11

<i>Brought forward,</i>		\$173,558 11
1874.	No. order.	
Sept. 7.	448. Jas. Driscoll, reservoir	\$3,879 78
	“ filtering gallery and conduit	272 61
		<hr/> 4,152 39
	449. John F. Ward, laying pipe	10,487 90
	450. Boston Daily Adv., advertising	64 13
14.	495. C. H. Drew, advanced to Akron Drain Pipe Co. . . .	300 00
21.	496. Rand, Avery & Co., printing	9 00
	497. Boston Machine Co. .	\$470 55
	“ hydrants, gates, etc.	132 78
		<hr/> 603 33
	449. Cousens Bros., wharfage . .	305 50
Oct. 5.	515. E. S. Philbrick, salary	1,000 00
	“ sundry bills paid . .	66 35
	“ pay-roll, Sept . .	879 00
		<hr/> 1,945 35
	516. C. H. Drew, salary	250 00
	517. C. K. Kirby, “	250 00
	518. F. Darracott “	250 00
	519. N. C. Towle “	187 50
	“ postage, telegrams, etc. . .	5 46
8.	520. James Driscoll, reser- voir	\$4,233 98
	“ filtering gallery . .	2,335 58
	“ conduit	3,553 00
	“ labor and material . .	79 02
		<hr/> 10,201 59
	521. John F. Ward, laying pipe	11,608 50
12.	523. M. Meehan, pumping-station	1,122 75
	“ labor and material,	32 49
	524. McAulay & Son, boundary posts	22 50
		<hr/>
<i>Carried forward,</i>		\$215,356 50

		<i>Brought forward,</i>	\$215,356 50
1874.	No. order.		
Oct. 12.	525.	E. S. Philbrick, paid J. P. Friez- zell sundry bills	18 04
	526.	Rand, Avery & Co., printing . .	140 74
	527.	Stone & Goodspeed, carriage-hire,	17 00
	557.	Geo. W. Whitman, inspection of pipe	240 00
19.	599.	J. W. Starr & Sons, pipe . . .	8,885 71
	600.	Boston Machine Co., hydrants and gates	1,712 92
	601.	Beals, Green & Co., advertising,	12 25
	602.	M. Cummings, carriage-hire . .	21 00
	603.	Akron Sewer-Pipe Co., pipe . .	3,700 00
26.	607.	Mass. Institute of Technology, water analysis	22 50
	608.	T. R. Marvin & Sons, printing . .	40 00
	609.	Rand & Avery, printing	6 00
Nov. 2.	614.	Jas. Driscoll, conduit fil- tering gallery . \$6,897 87	
		“ labor and material . 1,139 67	
		—————	8,037 54
9.	647.	Cousens Bros., wharfage	252 50
	648.	Jas. Edmond & Co., pipe	37 74
	649.	Beals & Jones, labor and mate- rial	22 13
	654.	M. Meehan, labor and material at engine-house	3,085 88
	655.	Jas. Driscoll, reservoir, \$8,604 06	
		“ labor and material, 759 51	
		—————	9,363 57
	656.	J. W. Starr & Sons, pipe	24,807 33
	657.	Geo. W. Whitman, inspection of pipe	120 00
		<i>Carried forward,</i>	\$275,899 35

<i>Brought forward,</i>		\$275,899 35
1874.	No. order.	
Nov. 9.	658. So. Boston Iron Co., iron-work .	19 35
	659. E. S. Philbrick, pay- roll, Oct. . . .	\$869 50
	“ railroad fares, etc. . . .	75 53
		<hr/> 945 03
	662. John F. Ward, laying pipe .	7,163 72
	663. Boston Machine Co., water-gates, hydrants, etc. . . .	\$2,755 69
	“ reservoir	14 75
		<hr/> 2,770 44
23.	679. H. R. Worthington, boiler for en- gine-house	2,500 00
	680. J. W. Starr & Son, pipe . . .	33,761 19
Dec. 9.	683. Dalton & Ingersoll, rough-stops	\$25 50
	“ “	17 50
		<hr/> 43 00
	684. M. Cummings, carriage-hire .	10 50
	685. Brookline Chronicle, advertising	6 00
	686. C. H. Drew, paid Judson Chapin and G. W. Mann, services . .	22 50
	687. Boston Daily Adv, advertising .	68 38
	688. Geo. M. Hopkins, Atlas of Brook- line	12 00
	689. M. Meehan, cement	175 50
14.	738. C. H. Drew, paid P. O'Neil, land damages	125 00
	739. Jas. Driscoll, conduit \$175 00	
	“ labor and cement	36 50
		<hr/> 211 50
	740. Stone & Goodspeed, carriage-hire	12 00
	741. A. T. Brown, loam, etc. . . .	50 00
		<hr/>
<i>Carried forward,</i>		\$323,795 46

<i>Brought forward,</i>		\$323,795 46
1874.	No. order.	
Dec. 14.	742. Hugh Rowe, stone posts . . .	30 80
	743. Geo. W. Whitman, inspection of pipe	120 00
	744. Boston Machine Co., hydrants, etc.	288 00
	745. N. E. Drain Pipe Co., tiles . . .	23 00
	746. John F. Ward, removing pipes, etc.	741 67
	747. " laying pipe	16,400 57
	748. Jas. Driscoll, labor filtering gal- lery and conduit	8,747 53
	749. Geo. Goodhue . . . \$445 80	
	" service pipes . . . 1,998 52	
		<hr/> 2,444 32
	750. E. S. Philbrick, pay-roll, Nov. . .	817 25
19.	751. M. Meehan, building engine- house	7,941 37
21.	754. Dalton & Ingersoll, ser- vice pipes . . . \$23 80	
	" rough-stops . . . 399 35	
		<hr/> 423 15
	755. Akron Pipe Co., pipe	3,322 40
	756. James Driscoll, labor, pipe, etc. .	5,828 57
1874-75.		
Jan. 4.	761. E. S. Philbrick, sal- ary for self and asst. \$1,333 33	
	" transportation . . . 50 74	
		<hr/> 1,384 07
	762. C. H. Drew, salary	250 00
	763. C. K. Kirby "	250 00
	764. F. Darracott "	250 00
<i>Carried forward,</i>		<hr/> \$373,058 16

Brought forward,

\$373,058 16

1874-75. No. order.

Jan. 4.	765.	N. C. Towle, salary .	\$187 50	
		“ services as to waiver of damages . . .	75 00	
			<hr/>	262 50
	768.	J. W. Starr & Sons., pipe .		264 72
	769.	Fearing, Rodman, Swift, cordage		12 59
	770.	J. Baker & Co., cordage, etc. .		10 01
	771.	Ed. F. Meaney, stone . . .		100 00
	772.	Boston Machine Co., sundries .		146 19
	773.	E. S. Philbrick, pay-roll, Dec. .		594 25
11.	805.	Chas. Chase, express . . .		6 05
	806.	R. Woodward, ladder-steps .		4 00
	807.	Globe Publishing Co., advertising		1 88
	808.	Jas. Driscoll, carting pipe	\$41 00	
		“ pipe and labor . . .	61 60	
			<hr/>	102 60
	809.	Cousens Bros., wharfage . . .		173 88
18.	829.	Jas. Driscoll, labor and material	1,465 96	
	855.	J. P. Frizell, use of level . . .		33 33
	856.	Dalton & Ingersoll, stops . . .		60 00
	857.	Beals & Jones, lumber and labor		9 75
	858.	John H. Reed & Co., beams . . .		14 92
	859.	Boston Daily Adv., advertising,		26 25
	860.	Stone & Goodspeed, carriage-hire		3 00
	861.	C. H. Drew, paid Jonas Smith, for land	3,000 00	
25.	874.	Gardner Chilson, stove and pipe		65 40
	885.	H. R. Worthington, engine . . .	5,000 00	
	886.	M. Withington, clerical assistance		250 00
28.	898.	Kenrick Bros., connecting pipe .		73 72
	1.	Peabody & Stearns, drawings for engine-house	350 00	
	2.	Ford & Kimball, gate-boxes . . .	66 37	
			<hr/>	
		<i>Carried forward,</i>		\$385,155 53

<i>Brought forward,</i>			\$385,155 53
1875.	No. order.		
Feb. 1.	67.	Jas. Driscoll, contract reservoir	4,000 00
	68.	J. T. O'Day, stationery . . .	14 20
	69.	John Thompson, coat-racks . .	1 25
	80.	C. H. Drew, paid Mary W. Gardner, land . . .	2,376 50
M'ch 8.	102.	E. S. Philbrick, pay-roll, Jan. and Feb.	175 50
	103.	C. H. Drew, paid N. M. Morrison, land damage, . . .	100 00
	104.	H. R. Worthington, force main	20 47
29.	126.	C. H. Drew, paid Francis T. Dwinell, land	700 00
	130.	H. R. Worthington, engine and boiler	3,000 00
	131.	J. W. Wason, coal	32 00
April 1.	133.	C. H. Drew, salary	250 00
	134.	C. K. Kirby, "	250 00
	135.	F. Darracott, "	250 00
	136.	N. C. Towle "	187 50
12.	185.	E. S. Philbrick, pay-roll, March	150 00
	186.	E. S. Philbrick, salary	1,000 00
	187.	Drew & Mason, professional services	148 67
	188.	Brookline Chronicle, advertising	2 00
20.	200.	T. R. Marvin & Son, printing . .	15 00
	201.	Boston Daily Ad., advertising .	3 00
May 10.	248.	Jas. Driscoll, labor and material	1,107 47
	249.	C. H. Drew, paid A. F. Whittemore, for land	1,200 00
	250.	Kenrick Bros., pipe and stops .	668 37
	251.	F. A. Searle, printing	3 00
	252.	Stone & Goodspeed, carriage-hire	6 00
<i>Carried forward,</i>			\$400,816 46

<i>Brought forward,</i>		\$400,816 46
1875.	No. order.	
May 10.	253. J. W. Starr & Sons, sleeves for pipe	89 36
	254. Leonard & Ellis, cylinder oil .	59 38
	255. Chas. Chase, express . . .	2 20
10.	256. Brookline Chronicle, advertising	2 00
24.	265. E. S. Philbrick, pay-roll, April .	297 75
	266. Walworth Manfg Co., supplies .	23 04
	267. Seccomb, Kehew & Thayer, oil .	43 43
	268. Dalton & Ingersoll, stops, etc. .	179 12
	269. Downer Oil Co., oil . . .	2 50
	270. M. Meehan, labor and material .	2,300 00
24.	271. N. C. Towle, sundries . . .	7 15
31.	274. Boston Belting Co., supplies .	8 59
	275. S. Mildram, coal barrow . . .	33 00
	288. J. W. Prescott, teaming . . .	10 00
	289. City of Boston, use of engine .	30 00
	290. Patterson & Lavender, furniture.	9 60
	291. Morss & Whyte, wire screens .	23 00
	292. E. E. Clarke, stationery . . .	4 17
	293. Michael McNamara, labor . . .	10 00
June 14.	294. Dalton & Ingersoll, stops, etc. .	390 13
	295. Boston Daily Ad., advertising .	3 13
	296. F. F. Forbes, tools, etc. . . .	8 86
	297. Fairbanks, Brown & Co., scales.	105 00
	308. Jas. Driscoll, labor and material.	5,439 70
	309. John F. Ward, excavation, etc.	2,217 24
	310. Kenrick Bros., service pipe, etc.	1,444 83
	311. E. S. Philbrick, pay-roll, May .	332 25
	312. Dodge, Gilbert & Co., cable chain	4 20
	313. Beals, Greene & Co., advertising.	3 00
28.	346. Geo. Goodhue, service pipe .	378 40
	347. Morss & Whyte, wire screens .	11 50
<i>Carried forward,</i>		<hr/> \$414,288 99

<i>Brought forward,</i>		\$414,288 99
1875.	No. order.	
June 28.	348.	O. B. Delano, building fence . 598 84
	349	Boston Machine Co., gates, etc. 1,003 30
July 6.	357.	C. H. Drew, salary . . . 250 00
	358.	C. K. Kirby, " . . . 250 00
	359.	F. Darracott, " . . . 250 00
	360.	E. S. Philbrick, sal'y \$1,000 00
		" sundries . . . 96 09
		<hr/> 1,096 09
	361.	Davis & Farnum, gas pipe . 91 91
	364.	J. W. Starr & Son, pipe . . 1,127 07
	365.	Dalton & Ingersoll, stops, etc. . 103 12
	366.	N. E. Drain Pipe Co., pipe . 14 40
	367.	J. W. Wason, labor . . . 14 14
12.	412.	E. S. Philbrick, pay-roll, June . 332 50
	413.	Jas. Driscoll . . . \$438 21
		" labor and material. 1,526 27
		<hr/> 1,964 48
12.	414.	Kenrick Bros., labor and material 144 45
	415.	John F. Ward, excavation, etc. . 658 79
	416.	Bliss Bros., hardware, . . . 16 31
	417.	Jas. Driscoll, labor and material 3,030 16
	418.	" building coal shed . . . 3,228 00
	419.	Harwood Bros., regulator . 20 00
	420.	A. Hale & Co., rubber boots, etc. 21 00
	421.	Chas. Chase, express . . . 13.91
19.	451.	Kenrick Bros., service
		pipe . . . \$20 28
		" sundries . . . 7 60
		<hr/> 27 88
	452.	Bancroft & Boyden, furniture . 5 50
	453.	Boston L. R. Co., lightning rods 130 00
	454.	I. S. Davis, labor and stock . 15 55
		<hr/>
<i>Carried forward,</i>		\$428,696 39

<i>Brought forward,</i>		\$428,696 39
1875.	No. order.	
July 19.	455. Morss & Whyte, wire, etc. .	97 00
Aug. 9.	487. John F. Ward, laying pipe, etc.,	102 20
	488. J. Edmond & Co., pipe .	26 46
11.	527. Kenrick Bros. pipe .	\$1,061 02
	“ “ “ .	863 25
	“ “ copper float,	12 93
		<hr/> 1,937 20
Sept. 6.	529. Chas. E. Dearborn, lumber .	14 58
	530. Jas. Driscoll, labor and material,	609 10
	531. Boston Machine Co., hydrants .	62 90
	532. Michael Meehan, building engine-house	551 03
	533. A. J. Wilkinson, hardware .	10 85
	534. Dalton & Ingersoll, stops .	21 00
	535. E. S. Philbrick, pay-roll, July .	271 25
	536. S. Dana Hayes, analysis .	12 50
	537. Williams & Everett, frames .	20 25
	538. Beals & Jones, labor and lumber,	19 46
	539. Boston Machine Co., wrenches .	18 50
	540. Jas. Driscoll, carting .	21 50
	541. Boston Nickel Plate Co., plating engine	1 05
	542. Jas. Driscoll, labor	106 00
	554. M. Meehan, labor and materials,	606 90
	555. Boston Nickel Plate Co., plating,	24 50
13.	562. Chas. E. Dearborn, lumber .	30 72
	563. Kenrick Bros., pipe, etc. .	556 24
	564. E. S. Philbrick, pay-roll, Aug. .	212 50
	565. C. A. Pons, window-shades .	25 00
	566. Boston Machine Co., sluice-gate,	300 00
	567. American Oil Cabinet Co., 1 oil cabinet	35 00
		<hr/> \$434,390 08
<i>Carried forward,</i>		

<i>Brought forward,</i>		\$434,390 08
1875.	No. order.	
Sept. 13.	568. A. Mudge & Son, printing .	4 75
	569. C. H. Drew, paid Jos. H. Rowe,	300 00
	570. " " Wilson Walker,	50 00
	571. Kenrick Bros., pipe, etc. . .	647 30
27.	623. J. E. Piper, cement . . .	60 00
	624. P. A. Dowd, telegraph line .	500 00
Oct. 4.	627. C. H. Drew, salary . . .	250 00
	628. C. K. Kirby, " . . .	250 00
	629. F. Darracott, " . . .	250 00
	630. N. C. Towle, " . . .	375 00
	" postage and fares . . .	7 00
11.	643. E. S. Philbrick, pay-roll, Sept.,	258 00
	644. " ass'ts'. railroad fares . .	36 80
	645. Kenrick Bros., pipe, etc. . .	407 66
	646. Worthington, Flanders & Co., advertising	3 13
	647. Dalton & Ingersoll, stops, etc. .	68 80
	648. H. R. Worthington, engine .	3,100 00
	649. P. A. Dowd, telegraph line .	321 98
	650. O. B. Delano, building fence .	816 54
	651. Chas. E. Dearborn, lumber, .	77 48
18.	707. Stone & Goodspeed, carriage- hire	23 00
	712. Welch & Anders, telegraph in- struments	330 00
	715. Boston Lead Co., lead . . .	76 77
	716. E. S. Philbrick, paid freight steamer Roman	13 75
	717. J. W. Starr & Sons, pipe . .	162 94
18.	718. Jas. Driscoll, labor, etc. \$8 50	
	" " 43 56	
	" " 1,237 40	
		<hr/> 1,289 46
<i>Carried forward,</i>		<hr/> \$444,070 44

<i>Brought forward,</i>		\$444,070 44
1875.	No. order.	
Oct. 18.	719. Journal Newspaper Co., adv'ng.,	3 75
25.	725. O. B. Delano, new conduit . . . \$1,160 05	
	" labor and stock . . . 40 00	
		<hr/> 1,200 05
	726. Dalton & Ingersoll, stops . . .	66 30
	727. Davis & Farnum, laying pipe . . .	7 70
	728. Chas. Chase, express . . .	6 42
	729. O. B. Delano, labor and stock . . . \$41 27	
	" labor and stock . . . 76 74	
		<hr/> 118 01
	730. " " . . .	176 92
Nov. 1.	736. John F. Ward, laying pipe . . .	5,500 00
8.	772. E. S. Philbrick, pay-roll, Oct. . .	43 25
	773. H. R. Worthington, engine . . .	2,400 00
	774. Boston Machine Co., hydrants . . .	136 82
	775. Boston Daily Ad., advertising . . .	5 63
	E. S. Philbrick, pay-roll, Oct. . .	210 00
15.	798. Jas. Driscoll, reser- voir . . . \$10,800 50	
	" labor and material, . . . 781 50	
		<hr/> 11,582 00
22.	807. O. B. Delano, labor and stock on conduit	3,960 48
	808. Kenrick Bros., laying pipe . . .	369 06
	809. " " etc., . . .	301 45
	810. Stone & Goodspeed, carriage- hire	5 50
	811. Jos. P. Davis, opinion and services . . .	100 00
29.	816. P. S. Allen, laying pipe . . .	236 13
		<hr/>
<i>Carried forward,</i>		\$470,499 91

<i>Brought forward,</i>		\$470,499 91
1875.	No. order.	
Dec. 6.	821. Harrison & Boody,	
	painting	\$283 55
	“ “ 	85 65
	“ “ 	33 50
		<hr/>
		402 70
	822. Kenrick Bros., laying pipe	246 47
	823. Boston Machine Co., water-gate,	
	etc.	93 48
	824. E. S. Philbrick, pay-roll for Nov. . . .	130 00
13.	875. Drew & Mason, professional ser-	
	vices	279 59
	876. C. K. Kirby, travelling expenses	25 00
	877. M. Withington, clerical assist-	
	ance	200 00
	878. Jas. Driscoll, laying pipe	282 80
	879. A. H. Howland, railroad fares	17 70
	880. Welch & Anders, telegraph ins'ts	170 00
	881. J. Herbert Shedd, consultation,	
	etc.	104 10
	882. Jas. Driscoll, conduit \$522 78	
	“ labor and sodding 237 18	
		<hr/>
		759 96
	883. J. G. Roberts & Co., note-books	3 00
20.	888. John F. Ward, laying pipe	25 75
	889. O. B. Delano, labor and stock	84 61
	890. I. S. Davis, gate-box	4 00
	891. W. K. Means, labor	39 00
	897. C. H. Drew, cash paid for re-	
	cording deed	6 50
27.	897. C. H. Drew, salary	250 00
	898. C. K. Kirby “	250 00
	899. F. Darracott “	250 00
		<hr/>
<i>Carried forward,</i>		\$474,124 57

<i>Brought forward,</i>		\$474,124 57
1875.	No. order.	
Dec. 27.	901. Harrison & Boody, painting .	5 94
	904. N. C. Towle, salary .	\$187 50
	“ fares and postages	7 00
		<hr/> 194 50
		<hr/> \$474,325 01
		<hr/>

Recapitulation, showing under what divisions the cost was distributed by the Commissioners, taken from their final report, p. 109 : —

RECAPITULATION.

Engineering,	\$17,801 72
General expenses,	3,989 42
Salaries,	7,770 94
Reservoir construction,	53,312 71
Land and land damage,	35,124 00
Filtering-gallery and conduit,	45,593 78
Engine-house and engine,	21,896 39
Pumping-station,	15,993 94

DISTRIBUTION.

Gates and hydrants,	\$15,599 08
Cast-iron pipes and castings,	163,609 82
Laying water-pipes,	76,112 92
Miscellaneous,	8,948 74
	<hr/> 264,270 56
Service-pipe,	8,571 14
	<hr/> \$474,325 00
Total,	<hr/>

(B.)

Question XV. 4. Please state * * why Akron pipe was used, and on whose recommendation?

5.. Why Scotch pipe was not used?

Answer 4 and 5. Akron pipe has been largely used for sewers in the Western States, where it has a good reputation. Scotch pipe was better known here, and proposals for Scotch pipe were invited. Such proposals were duly received, but there were no such pipe this side of Glasgow of the required size, and a very uncertain length of time would be required for their importation. The time for opening the trench and putting them together would be limited by the weather to October 31st. It was then June. The Akron pipe were nearer at hand; their delivery within the required time was thought more certain than that of the Scotch.

Other engineers spoke well of the Akron pipe as having been used in works under their charge, among whom were Mr. E. S. Chesborough and Mr. W. H. Bradley. The risk of delay in the delivery of Scotch pipe turned the scale in favor of the American, for which a contract was made. There was no test of strength applied to them for the reason that no satisfactory way of applying such a test could be devised which would prove their powers of resistance against the somewhat unevenly distributed pressure to which they would be subjected when buried, except the experimentum crucis to which they were actually subjected and where they failed to the great surprise and eha grin of all persons connected. In addition the Commissioners would refer to pages 14 and 16 inclusive of their final report.

BROOKLINE, March 16, 1876.

GEO. GRIGGS, ESQ., *Chairman of Committee on final accounts of
Water Commissioners:—*

DEAR SIR, — I have to acknowledge receipt of your request for answer to two interrogatories, and, by direction of Water Commissioners, reply to them as follows:—

1. On the first of June two bids were presented, namely, of James Edmond & Co., and of William Roy. The former was presented at Brookline. The latter came to the chairman of this Board at his office in Boston, and was forgotten by him when he left his office to attend the Water Commissioners' meeting in Brookline. It was considered by the Board that the bid was duly received and ought not to be rejected by reason of the inadvertence of the chairman.

2. The bid of James Edmond & Co. was not unconditional. It was an offer to "import and furnish" the pipe, "excepting such failure or delay as may be caused by war, strikes, pestilence or action of the elements." It was not, therefore, in conformity with the requirements of the proposal, which called for absolute and unconditional offers to furnish. It was believed by the Commissioners that if the importer would not take the risks incident to the importation the Commissioners acting for them ought not to. In considering the time within which the pipe ought certainly to be delivered, the certainty of the work on the conduit being stopped by heavy rains was taken into account; and if the rains should come, as they might early in the fall, the time for delivery of the pipe was quite short. If, therefore, any accident should occur whereby any part of this pipe should be delayed beyond that time, it was thought probable, it might be said certain, that the work would be stopped for the season, and a delay of nearly a whole year in the completion of the works result.

Again, the Commissioners believed from the reports made to them that the Akron pipe was "as good as the best Scotch;" and it could be furnished much cheaper. They therefore believed that in taking the Akron pipe instead of the Scotch pipe from James Edmond & Co., they were getting as good an article as the latter

firm could furnish, within the time required for the work, and at a less price. It seemed to them, therefore, clearly their duty to take it.

I am, sir, respectfully your obt. servant,

CHARLES H. DREW,

Chairman of the Brookline Water Commissioners.

TO GEORGE GRIGGS, ESQ., *Chairman* : —

DEAR SIR, — In answer to your communication of 13th inst., viz. : “ Will Messrs. James Edmond & Co. please inform the Committee on the final report of the Brookline Water Commissioners whether, when they made their proposals for supplying Scotch pipe for the conduit, they were ready to give the bond required by the Commissioners. ? ”

We respectfully reply, *yes*.

Yours truly,

JAMES EDMOND & Co.

BROOKLINE, Feb. 18, 1876.

MESSRS. JAMES EDMOND & Co., BOSTON : —

GENTLEMEN, — At a meeting of the committee to whom was referred the report of the “ Water Commissioners,” held this date, I was requested to procure from you the ability of your firm and the facilities you had for furnishing 24-inch Scotch pipe for the conduit built by the Commissioners. I have in conformity to request you to communicate to me the facts relating thereto, to be reported to the committee.

Gentlemen, your obedient servant,

W. A. WELLMAN.

To WM. A. WELLMAN, ESQ., of the Committee on the "*Report of the Water Commissioners:*"—

DEAR SIR,— In answer to your communication of 18th inst, "As to the ability of our firm, and the facilities we had for furnishing 24-inch Scotch pipe for the conduit built by the Commissioners," we respectfully state that our ability and facilities for furnishing 24-inch Scotch pipe, for the Brookline conduit, were ample. And, as evidence, mention that between the first of April, 1874, and 22d of August (same year) we had six (6) foreign vessels with cargoes direct from Liverpool and Glasgow (5 of the vessels to our wharf), in addition to a large quantity of pipe received *via* New York.

Feb. 25th, 1874, our attention was first called to the probable wants of the town, by E. S. Philbrick, Esq., who made inquiry for "a mile in length of 24-inch Scotch pipe."

March 30th, we learned from Mr. Philbrick that only 4,000 feet would be required.

April 29th, went to New York to arrange for 24-inch Scotch pipe.

May 3d, our arrangements were ample for furnishing the pipe.

Early in May, attended a meeting of the Commissioners and engineer, and offered to furnish 4,000 feet 24-inch Scotch pipe at \$2.75 per foot. Were ready to commence delivery.

After considerable conversation between the Commissioners and their engineer, Mr. Kirby put the question, "Shall we decide to take the pipe of Messrs. Edmond & Co."

Mr. Philbrick answered, "Yes; at price per foot for cost in brick." Other conversation followed, as to sediment and slime attaching to a brick surface, etc. Also remarks as to cement pipe.

Nothing definite as to pipe was decided.

May 7th, one of our firm went to Providence to advise with Mr. Shedd, engineer of the Providence Water Works, as to probable cost per foot for a 24-inch brick conduit.

May 14th, again visited Mr. Shedd, when he informed us that he estimated the cost at something over (\$4) four dollars per foot.

May 15th, called on Mr. Kirby, and stated to him the estimated cost per foot, by Mr. Shedd, for a brick conduit.

Nothing settled upon.

May 22d, proposals appeared in the daily papers for 4,000 feet Scotch stone-ware pipe. Bids to be received up to 5 P.M., June 1st. Pipe to be delivered in July and August.

June 1st, at 4.45 P.M., handed in proposal, to furnish pipe at \$2.83 per foot, with proviso, "excepting such failure as may be caused by war, action of the elements," etc.

Our proposal stated, "if desired we might commence to furnish at once from stock now on hand."

At this point it is due us briefly to state why we advanced the price, and why we inserted "the proviso." On the 3d of May, we had about 2,000 feet, and sufficient time, had our offer been accepted, to have laid down at our wharf the balance of pipe by sailing vessel. But when we learned that the proposals would not be opened till evening of June 1st, with the uncertainty when we should have anything definite from the Commissioners, and the conditions being delivery of entire quantity during July and August, we deemed it prudent to insert the proviso, and advance the price 8 cts. per foot, to cover cable correspondence, and extra freight, by steamer to New York and thence to Boston.

There would have been no occasion, however, for "advance or proviso," had we, after 97 days' waiting, been favored with the privilege granted the "Akron" pipe contractors, who had till October 10th, and then a further extension, till November 19th, *for delivery*.

June 6th, on inquiry we were informed that our bid was not accepted, another party having proposed a less price. As it was not (to our minds) probable that the party would respond, there being no margin for profit, we waited, in expectation of being called upon, till 29th of June, when, upon inquiry, we were told that the Commissioners had decided to contract for "Akron" pipe.

Memo. — November 7th, 5 months after our bid was rejected, and 67 days after time fixed in printed proposals for entire delivery of pipe, we were called upon, from office of engineer, to see if we would furnish 200 feet 24-inch pipe, "to help out," — as the Akron Company were behind in delivery.

In closing perhaps we should state, for your information, that

the Scotch pipe, which we offered to furnish, was in 3 feet lengths, 2 inches thickness, weight full 50 per cent. greater than the "Akron," to say nothing of superior quality.

Yours, very truly,

JAMES EDMOND & CO.

Boston, Feb. 23, 1876.

(PROOF.)

May 2d. — Our New York correspondent writes, "The 24-inch pipe I can deliver, for this season's laying, on wharf in Boston. Have here, and close at hand, nearly 2,000 feet."

May 8th. — "I could deliver you about half your 24-inch before the first of July, and the balance might be a little later."

June 3d. — "I have been expecting to hear something of the 24-inch, as the time is getting on."

Later. — "Will you please inform me if the Brookline Water Commissioners have, as yet, made any award for the 24-inch pipe."

June 22d. — "Should the Brookline Commissioners award you the contract for furnishing the 24-inch pipe, *you can depend upon receiving the whole quantity from me.*"

June 30th (in reply to ours of 29th.) — Our correspondent writes, "The action of the Brookline Commissioners in the matter of 24-inch pipe appears to me to be very strange, and I cannot understand why, after advertising for proposals for Scotch pipe, they accept an inferior article from parties that made no bid, and did not name price, until the bids of other parties had been opened, and thus were able to base their figures on bids that were made in good faith."





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